

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,603	07/16/2003	Dae-Hyeok Im	1349.1239	655\$
21171	7590 12/15/2004		EXAMINER	
STAAS & HALSEY LLP			BOLLINGER, DAVID H	
SUITE 700 1201 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			3653	

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	T	T:	
	Application No.	Applicant(s)	
Office Action Summer	10/619,603	DAE-HYEOK IM	
Office Action Summary	Examiner	Art Unit	
•	David H Bollinger	3653	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	5
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period vortice to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this commun (D) (35 U.S.C. § 133).	nication.
Status .			
1) Responsive to communication(s) filed on	•		
	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the mer	rits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-7 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-7</u> is/are rejected.			
7) Claim(s) is/are objected to.			•
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9) The specification is objected to by the Examine	г.	·	
10)⊠ The drawing(s) filed on 17 December 2003 is/a	re: a)⊠ accepted or b)⊡ object	ed to by the Examiner.	•
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.1	121(d).
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-15	52.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:)-(d) or (f).	
1. Certified copies of the priority documents			
2. Certified copies of the priority documents	• •		
3. Copies of the certified copies of the prior		ad in this National Stag	е
application from the International Bureau * See the attached detailed Office action for a list		ad	
oco ino altaorica detailed Office action for a list	or the contined copies not receive	м.	
Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ate Patent Application (PTO-152)	,
Paper No(s)/Mail Date	6) Other:		

Application/Control Number: 10/619,603

Art Unit: 3653

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Page 2

2. Claims 5 through 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 5 through 7 are indefinite because structure of an apparatus and steps of a process for using the apparatus are recited in claim 5. This raises ambiguity as to whether an apparatus or a process of using the apparatus is being claimed.

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 5 through 7 are rejected under 35 U.S.C. 101 because claim 5 recites both structure of an apparatus and steps of a process for using the apparatus, therefore; claim 5 and claims 6-7 which depend from claim 5 is directed to neither a "process" nor a "machine", but rather embraces or overlaps two different statutory classes of invention set forth in 35 USC 101 which is drafted so as to set forth the statutory classes of invention in the alternative only. See MPEP 2173.05(p).

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States

Application/Control Number: 10/619,603 Page 3

Art Unit: 3653

only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1 and 3 through 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Chelvayohan.

Chelvayohan discloses an apparatus to feed paper in an image forming apparatus comprising a pickup roller 340 to pick up paper and a media sensor as recited in the claims. See column 1 lines 13-28, column 2 lines 26-39.

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chelvayohan in view Mitani.

Art Unit: 3653

Chelvayohan as interpreted above in paragraph 5 teaches everything except employing a circuit to process the signal from media sensor including an A/D converter.

Mitani teaches employing a circuit with an A/D converter 3 to process a signal from a detector 1.

It would have been obvious to one of ordinary skill in the art to employ a circuit in Chelvayohan having an A/D converter to process the signal from the media sensor in view of the teachings of Mitani as it is common to employ A/D converters in signal processing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David H Bollinger whose telephone number is 703-308-1113. The examiner can normally be reached on Monday through Friday from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Walsh, can be reached on 703-306-4173. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Application/Control Number: 10/619,603

Art Unit: 3653

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner 12/12/04/ Art Unit 3653

Page 5